INPLACE MOISTURE-DENSITY DETERMINATION: RUBBER BALLOON METHOD

Fine-Grained Soils — Less than 5% + No. 4 Sieve

Location .				**			Site No				
Watershed						41 ,	Subwatershed				
Contract No.			_ Contra	actor							
Tested by			_ Comp	uted by			Checked by				
Test No.	Date	Location of test					Borrow source,	Material			
		Station	Ę o	© offset Elevation		ו	location, and depth	classification			
					. 7.18						
·					and the state of t			1,756.7			
1		1	·								
Test	Date	Spec. requir	rements (%)	Test re	Test results (%)		Wet der	Wet density check			
No.		Moisture range	Compac- tion	Moisture	Compac- tion	Curve No.	1-Point	Curve			
					1						
			-								
	·						•				
								•••			
Remarks_				,			****				
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5						-					
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		Test No.			
•	Volume Determination				
_	Final base reading				
	Final base reading				
	Initial case reading			,	
3.	Volume of hole = 1 - 2	<u> </u>		 	
				İ	
	Moisture Determination				
Spe	edy moisture meter				
4.	Dial reading				
	Moisture content (calibration curve)(%)				
	nple tested using: quick dry alcohol oven	Can No.			
	Weight of moist sample plus container				
	Weight of dry sample plus container				
	Weight of moisture = 6 - 7				
	Weight of container				
	Weight of dry sample = (7) - (9)				
11.					
	Correction for ignition (%)				
	Corrected moisture content = (1) - (12) (%)				
	Density Determination				
	Solioly Botoliniation				
14.	Weight of moist sample plus container				
	Weight of container				
	Weight of moist sample = 14 - 15				
	Weight of dry sample = [16+ (100 + 13)] 100				
	Fill dry density = 17 + 3				
	Maximum dry density				
	Ratio¹ = (18 + 19) 100 (%)				
	(18)		<u> </u>		

¹ Patio of fill dry density to maximum dry density.